This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original) Printable and dispensable etching medium in the form of an etching paste having non-Newtonian, preferably thixotropic flow behaviour for the etching of amorphous, crystalline or partially crystalline surfaces of titanium oxides, characterised in that it is effective at 15 50°C and/or can be activated by the input of energy and comprises the following components:
 - a) as etching component, ammonium hydrogen difluoride in a conce ntration of 8.5 9.5% by weight, based on the total amount
 - b) optionally at least one inorganic and/or organic acid having a content of 24 26% by weight, based on the total amount of the medium, where the organic acid present can be an organic acid having a pK_a value of between 0 and 5 selected from the group consisting of carboxylic acids, such as formic acid, acetic acid, dichloroacetic acid, lactic acid and oxalic acid,
 - c) a solvent selected from the group consisting of water, ethers, such as ethylene glycol monobutyl ether, triethylene glycol monomethyl ether, esters of carbonic acid, such as propylene carbonate, ketones, such as 1-methyl-2-pyrrolidone, as such or mixtures thereof in an amount of 52 57% by weight, based on the total amount of the etching medium,
 - d) 10.5 11.5% by weight, based on the total amount of the etching medium, of cellulose derivatives and/or polymers, such as polyvinylpyrrolidone, as thickener,
 - e) optionally 0 0.5% by weight, based on the total amount, of additives selected from the group consisting of antifoams, thixotropic agents, flow-control agents, deaeration agents and adhesion promoters.
- 2. (Original) Etching medium according to Claim 1, characterised in that it comprises ammonium hydrogen difluoride as etching component for oxidic surfaces, ethylene glycol monobutyl ether, triethylene glycol monomethyl ether, propylene carbonate and water as solvents, formic acid as organic acid and polyvinylpyrrolidone as thickener.

- (Currently Amended) Process for the etching of amorphous, crystalline or partially crystalline surfaces of titanium oxides, characterised in that an etching medium according to <u>claim 1</u> one of <u>Claims 1 and 2</u> is applied to the surface to be etched and is removed again after an exposure time of 0.1 15 minutes.
- 4. (Currently Amended) Process according to Claim 3, characterised in that the an etching medium according to Claims 1-2 is applied over the entire surface or specifically in accordance with the etch structure mask only to the areas where etching is desired, and, when etching is complete, is rinsed off using a solvent or solvent mixture or fired in a furnace.
- (Currently Amended) Use of an etching medium according to <u>claim 1</u> Claims
 1-2 for the production of marks and labels and for improving the adhesion of
 Ti_xO_y glasses, ceramics and other Ti_xO_y-based systems to other materials by
 roughening.
- (Currently Amended) Use of an etching medium according to <u>claim 1</u> Claims
 1-2 in screen, template, pad, stamp, ink-jet and manual printing processes and the dispensing technique.
- 7. (Currently Amended) Use of an etching medium according to <u>claim 1</u> Claims 1-2 for the etching of amorphous, partially crystalline and crystalline Ti_xO_y systems, as uniform solid non-porous and porous solids or corresponding non-porous and porous layers of variable thickness which have been produced on other substrates.
- 8. (Currently Amended) Use of an etching medium according to <u>claim1</u> Claims 1 to 2 for the removal of amorphous, partially crystalline and crystalline Ti_xO_y layers, for the selective opening of antireflection layers comprising Ti_xO_y systems for the production of two-stage selective emitters and/or local p⁺ back surface fields in solar cells.
- 9. (Currently Amended) Amorphous, partially crystalline or crystalline surfaces of titanium oxides which have been treated with etching media according to claim 1 one of Claims 1 and 2.